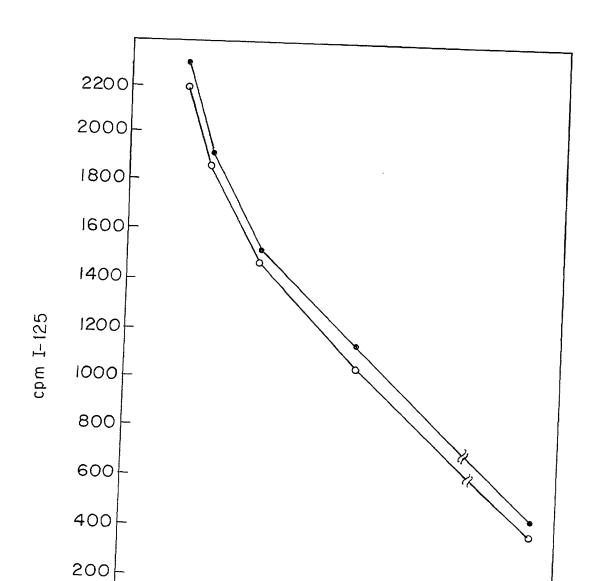


FIG. 1





the first face that the first and the first of the first

Incubation of rHu TNFat 60°C(hr)

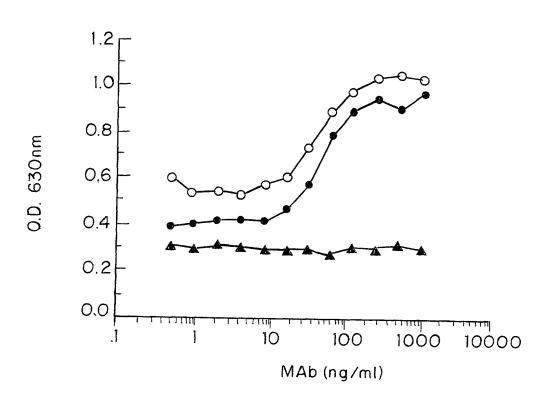
8

24

FIG. 2

0

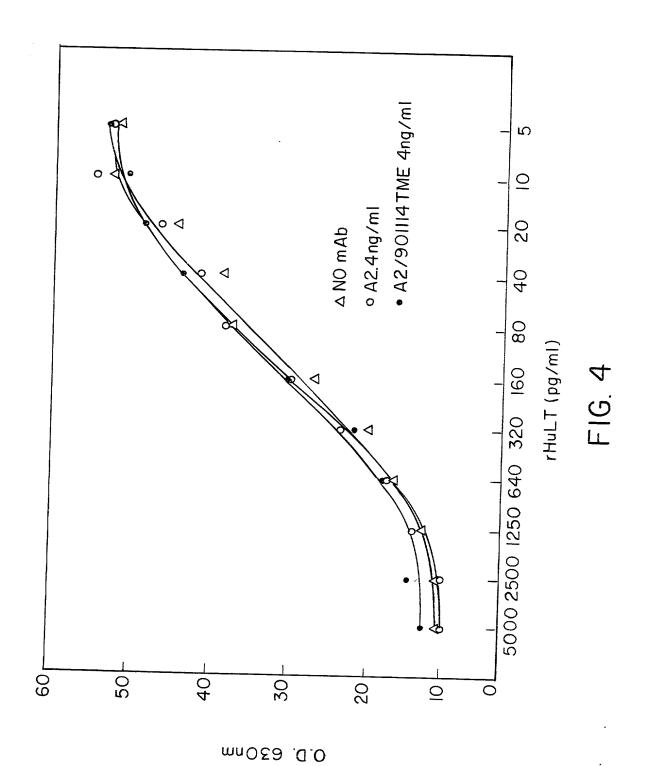




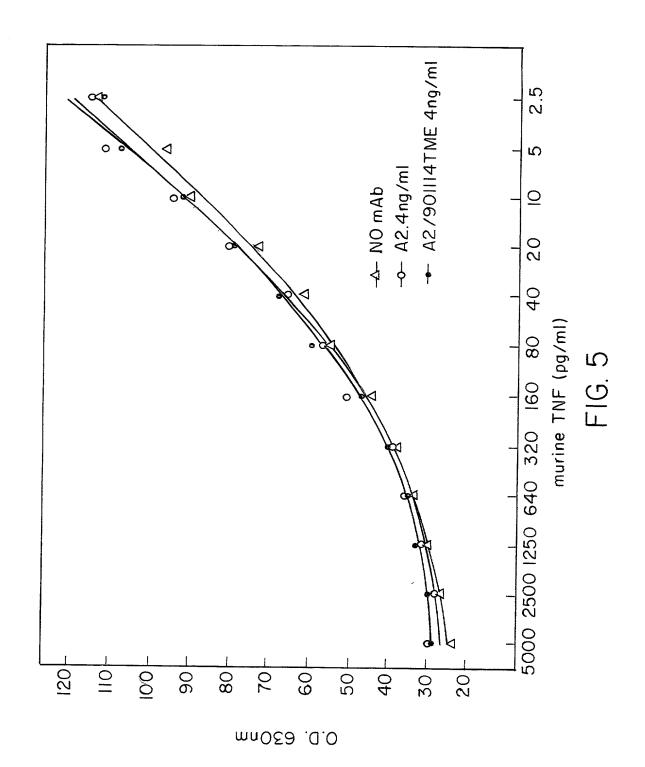
- Natural Human TNF
- O Recombinant Human TNF
- ▲ Control

FIG. 3

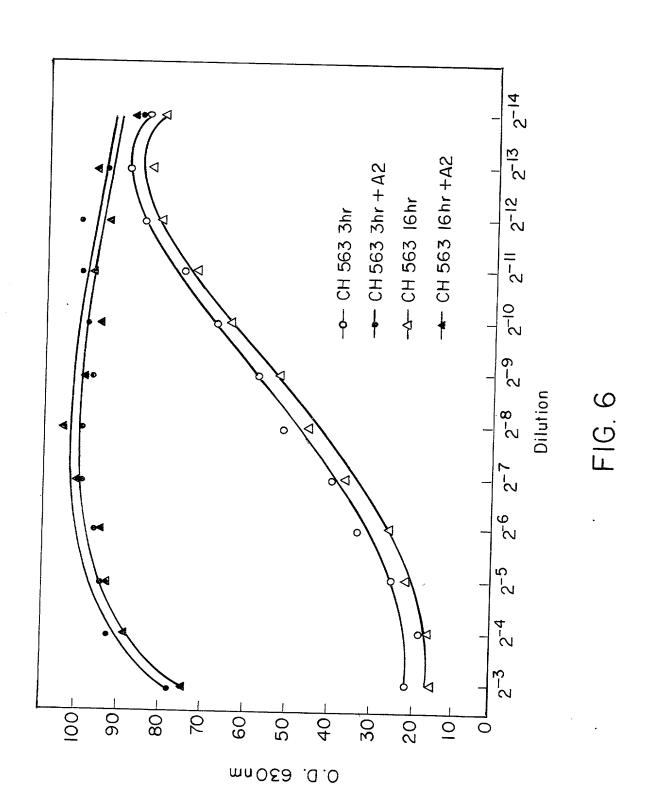
Docket No.: 0975.1005-016 Title: METHODS OF TREATING ANKYLOSIS....



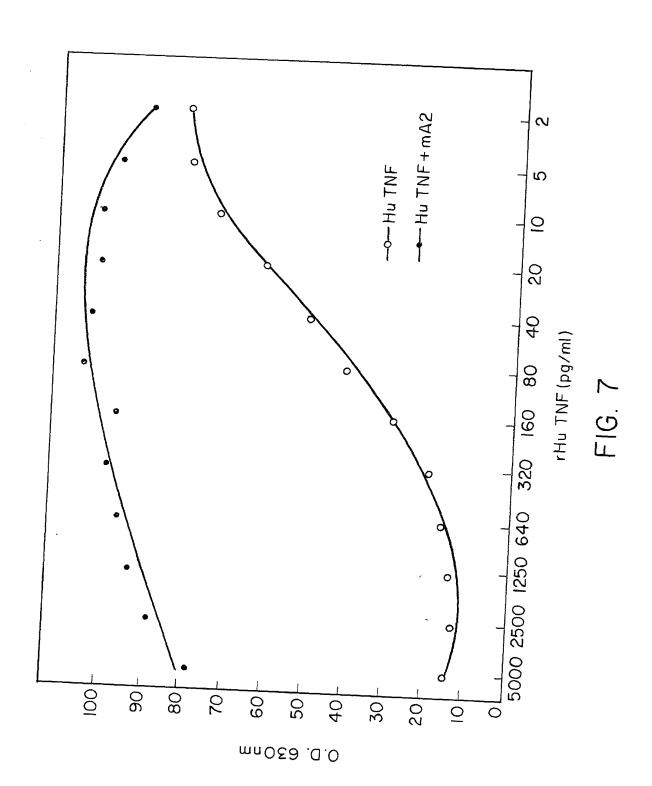
Title: METHODS OF TREATING ANKYLOSIS....



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EcoRI PvuI XbaI pBR BamHI Eco gpt Bam HI. V_{H} -XbaI EcoRI CH3 XbaL HindⅢ CH2 CH₁ SalI pA2HG1apgpt

FIG. 8A

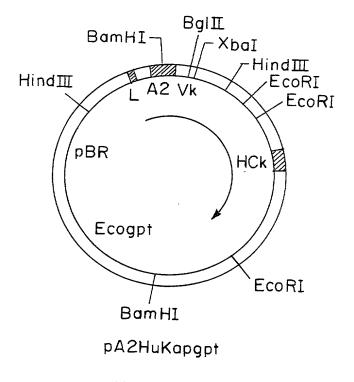


FIG. 8B

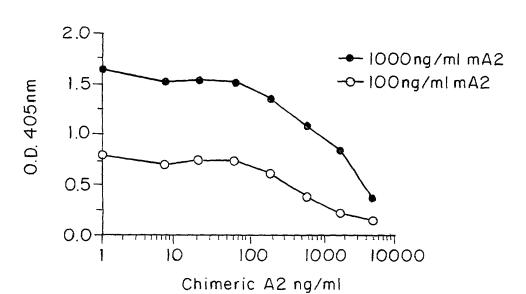


FIG. 9A

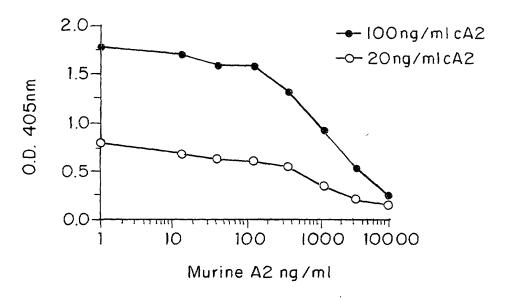


FIG. 9B

fine for the same super

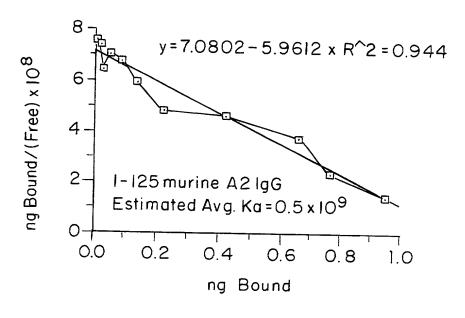


FIG. 10A

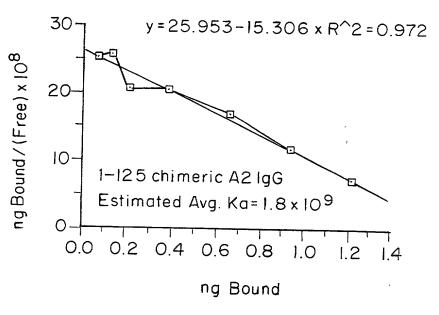
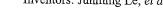


FIG. 10B



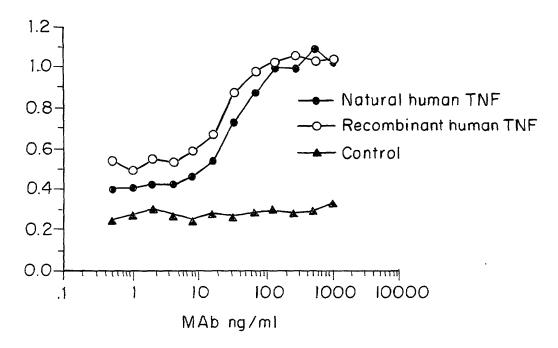


FIG. 11

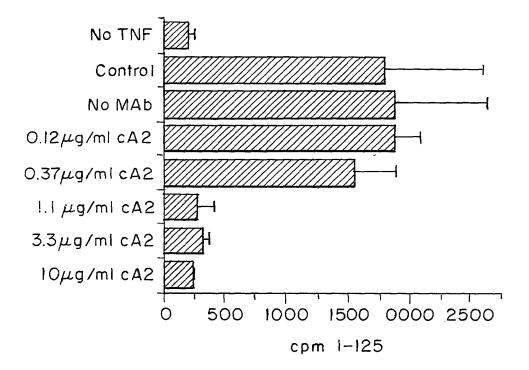


FIG. 12

Title: METHODS OF TREATING ANKYLOSIS....

Inventors: Junming Le, et al.

Pro Ser Ile G1yLeu Asp Asn Asn Pro Thr Ala Ala Φ Ile Arg Ø II Ηi Leu Val Leu Thr Pro Asn Leu Leu Glu Val Leu Ø Φ Ala Al I His Ala Len Leu Ser Glu Φ II Ala GlyAsn Trp Val Len Ala Φ \Box Val Glu His Ala Leu Pro Ser Pro Arg Ser Thr Asn Lys Leu Phe Lys Arg Pro Ser Ala Val Arg 10 Asp 30 Asn 70 Pro Lys130 Asp 50 Val 110 Glu 150 Val Ser Leu CysVal Thr Ala GlyGln Pro Trp Leu G1yGln G1yLys Gly Thr Gln Gln Gln Glu Glu TyrSer Arg Len GlyAsn Pro Leu Ser Glu Ser Gln Asp Lys Gln Val Ala Ser GlyArg Phe Ala Glu Phe Ser Glu Leu Arg Asp Val Arg Ala Arg Gln GlyVal 21 Gln 61 Gln 81 Ser Val Cys Gly101 121 41

FIG. 13



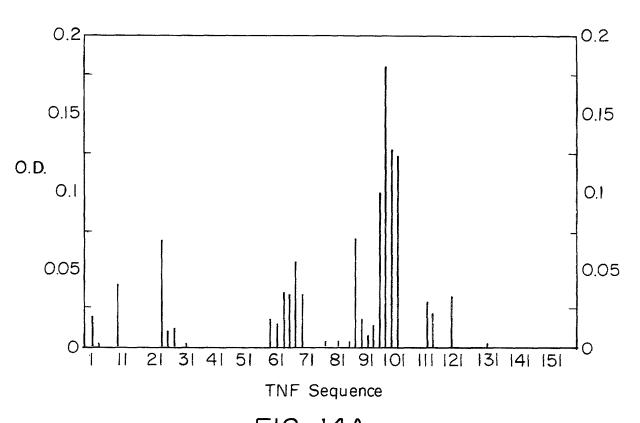


FIG. 14A

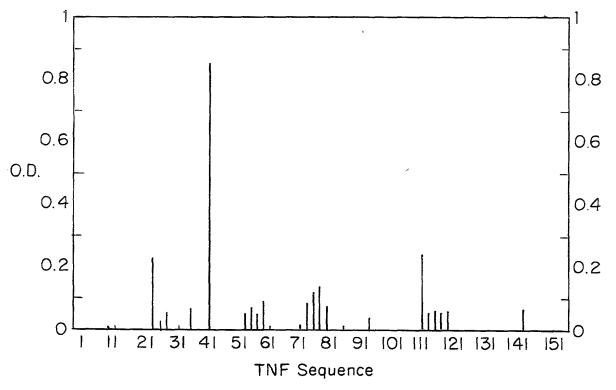


FIG. 14B

Docket No.: 0975.1005-016 Title: METHODS OF TREATING ANKYLOSIS....

Inventors: Junming Le, et al.

Pro GlyAsn Asn Ala Ala Leu Val Leu Val His Ala Ala Asn Pro Val Ala Arg Lys Arg 10 Asp Asn 30 Ser Leu Trp Pro Thr Gln Arg Gln Leu Ser GlySer Glu Ser Arg Ala Gln Val

Ser Ile Leu TyrLeu G1yGlu Ser Pro Val Val Leu Gln Asn Asp Arg Leu Glu Val

Ile Thr His Leu Leu Thr Val His Thr Ser Pro Cys GlyGln GlyLys Phe Leu Val Gln 61

Pro Ser Lys Φ II ർ Al Ser Leu Len Asn Val Lys 90 Thr Gln |Tyr|Ser Val Ala Ile Arg Ser 81

Leu TyrIle Pro Glu TyrTrp Pro Lys Ala Glu 110 ಥ Al GLyGlu Pro Thr Glu Arg Gln Cys 101

Asp Pro Arg Asn Ile Glu Ala Ser Leu Arg Asp 130 GlyGlu Lys Leu Gln Phe Val 121

Leu ൻ Al GlyPhe 150 Val Gln GlySer Glu Ala Phe Leu Asp

Title: METHODS OF TREATING ANKYLOSIS...

Inventors: Junming Le, et al.

GACATCTTGCTGACTCAGTCTCCAGCCATCCTGTCTGTGAGTCCAGGAGAAAGAGTCAGT ${\tt AspIleLeuLeuThrGlnSerProAlaIleLeuSerValSerProGlyGluArgValSer}$ TTCTCCTGCAGGGCCAGTCAGTTCGTTGGCTCAAGCATCCACTGGTATCAGCAAAGAACA $\tt Phe Ser CysArgAla Ser GlnPhe Val Gly Ser Ser Ile His Trp Tyr Gln Gln Arg Thr$ AATGGTTCTCCAAGGCTTCTCATAAAGTATGCTTCTGAGTCTATGTCTGGGATCCTTCC ${\tt AsnGlySerProArgLeuLeuIleLysTyrAlaSerGluSerMetSerGlyIleProSer}$ AGGTTTAGTGGCAGTGGATCAGGGACAGATTTTACTCTTAGCATCAACACTGTGGAGTCT ${\tt ArgPheSerGlySerGlyThrAspPheThrLeuSerIleAsnThrValGluSer}$

GAAGATATTGCAGATTATTACTGTCAAGAAAGTCATAGCTGGCCATTCACGTTCGGCTCG ${\tt GluAspIleAlaAspTyrTyrCysGlnGlnSerHisSerTrpProPheThrPheGlySer}$

GGGACAAATTTGGAAGTAAAA GlyThrAsnLeuGluValLys FIG. 167

Title: METHODS OF TREATING ANKYLOSIS....

Inventors: Junming Le, et al.

GAAGTGAAGCTTGAGGAGTCTGGAGGCTTGGTGCAACCTGGAGGATCCATGAAACTC ${\tt GluValLysLeuGluGluSerGlyGlyGlyLeuValGlnProGlyGlySerMetLysLeu}$ TCCTGTGTTGCCTCTGGATTCATTTTCAGTAACCACTGGATGAACTGGGTCCGCCAGTCT ${\tt SerCysValAlaSerGlyPheIlePheSerAsnHisTrpMetAsnTrpValArgGlnSer}$ CCAGAGAAGGGGCTTGAGTTGCTGAAATTAGATCAAAATCTATTAATTCTGCAACA $\tt ProGluLysGlyLeuGluTrpValAlaGluIleArgSerLysSerIleAsnSerAlaThr$

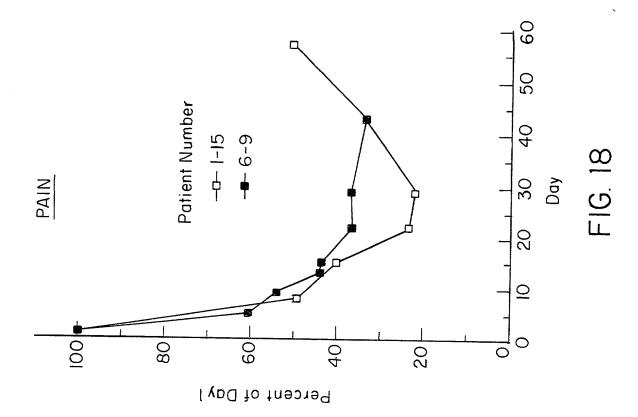
CATTATGCGGAGTCTGTGAAAGGGAGGTTCACCATCTCAAGAGATGATTCCAAAAGTGCT ${\tt HisTyrAlaGluSerValLysGlyArgPheThrIleSerArgAspAspSerLysSerAla}$

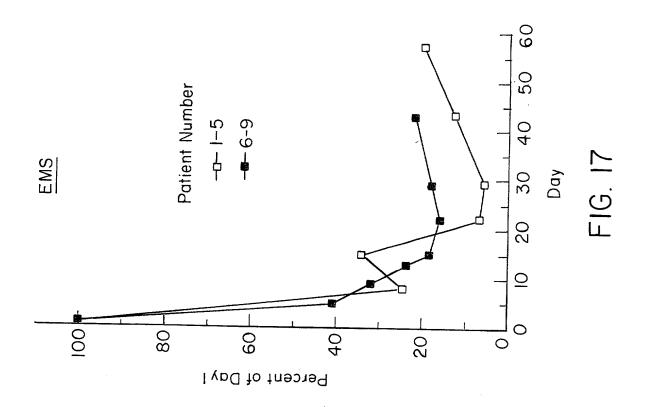
GTGTACCTGCAAATGACCGACTTAAGAACTGAAGACACTGGCGTTTATTACTGTTCCAGG ${\tt ValTyrLeuGlnMetThrAspLeuArgThrGluAspThrGlyValTyrTyrCysSerArg}$

AATTACTACGGTAGTACCTACGACTACTGGGGCCAAGGCACCACTCTCACAGTGTCC ${\tt AsnTyrTyrGlySerThrTyrAspTyrTrpGlyGlnGlyThrThrLeuThrValSer}$

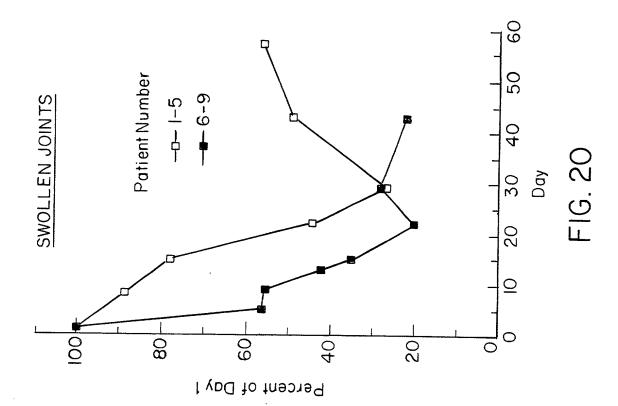
FIG. 16B

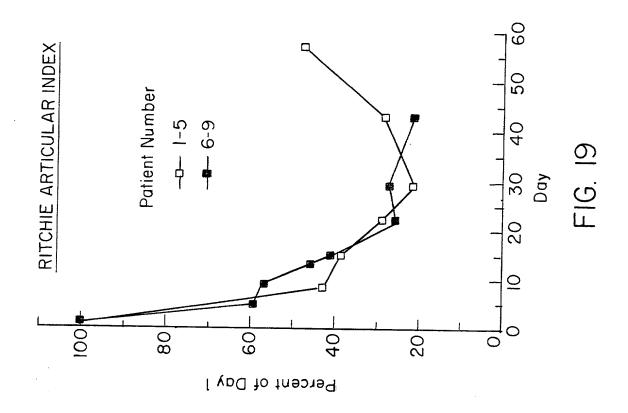
The state state and a state of the state s



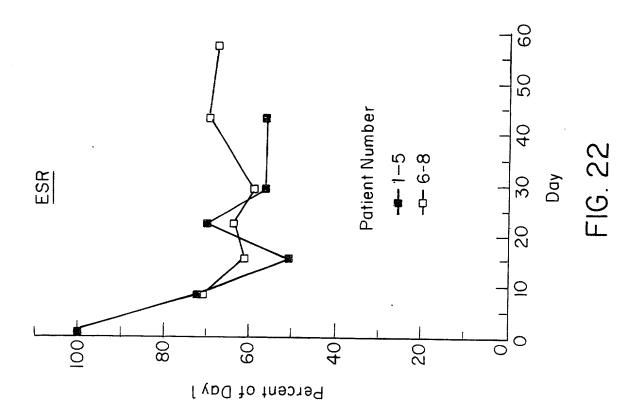


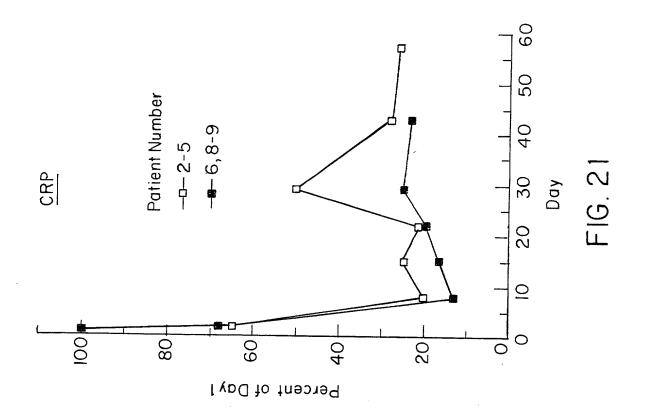
Docket No.: 0975.1005-016
Title: METHODS OF TREATING ANKYLOSIS....





Title: METHODS OF TREATING ANKYLOSIS....





Title: METHODS OF TREATING ANKYLOSIS....

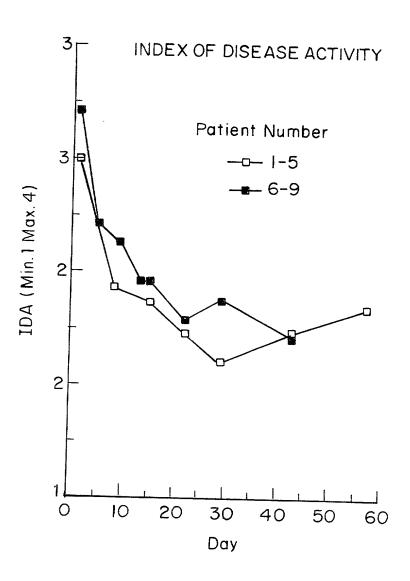
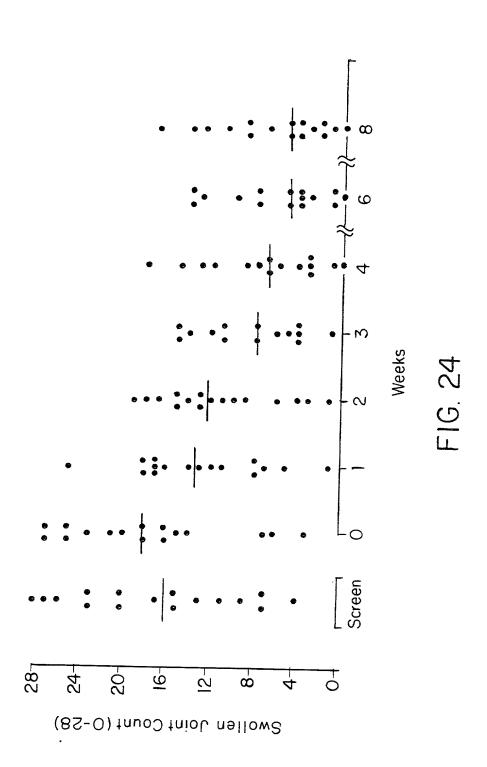
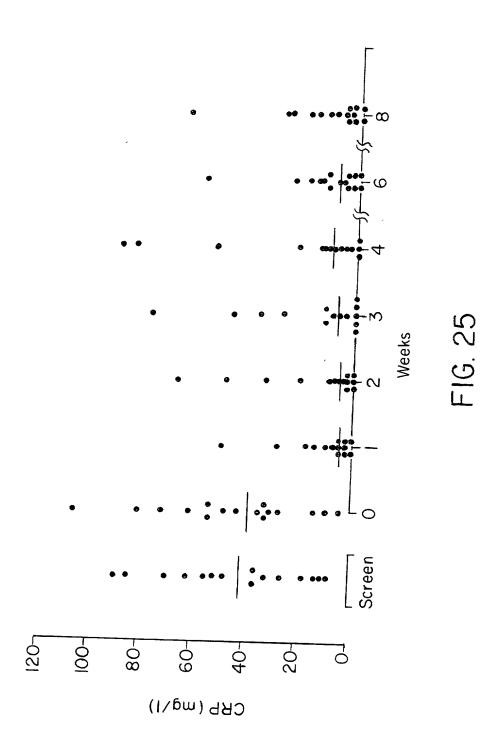


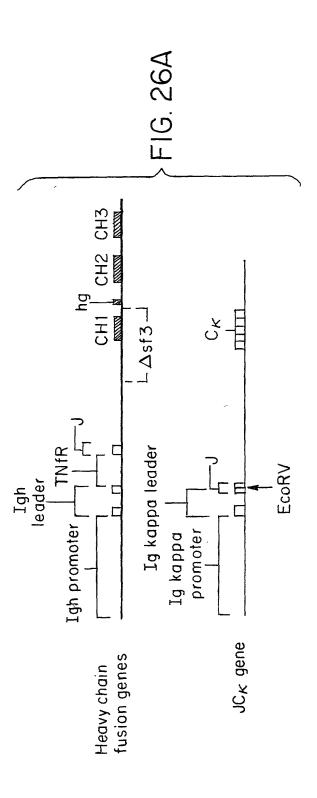
FIG. 23

Title: METHODS OF TREATING ANKYLOSIS....

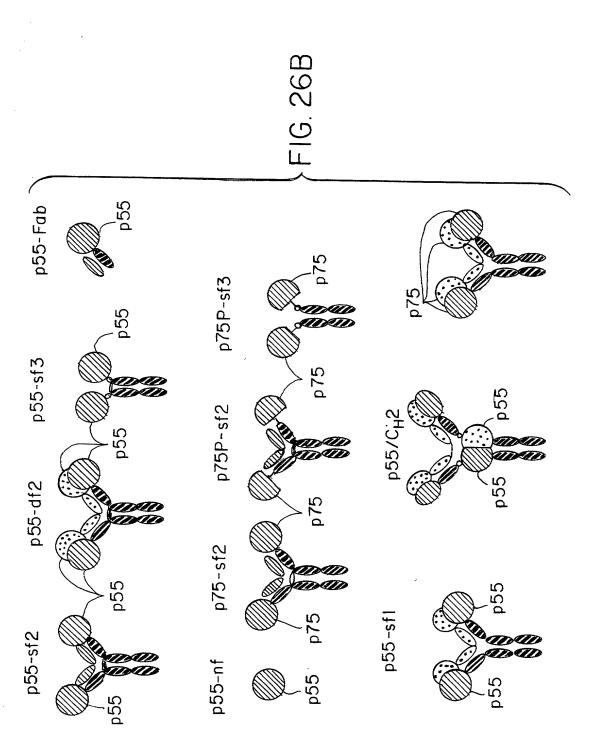


Title: METHODS OF TREATING ANKYLOSIS....

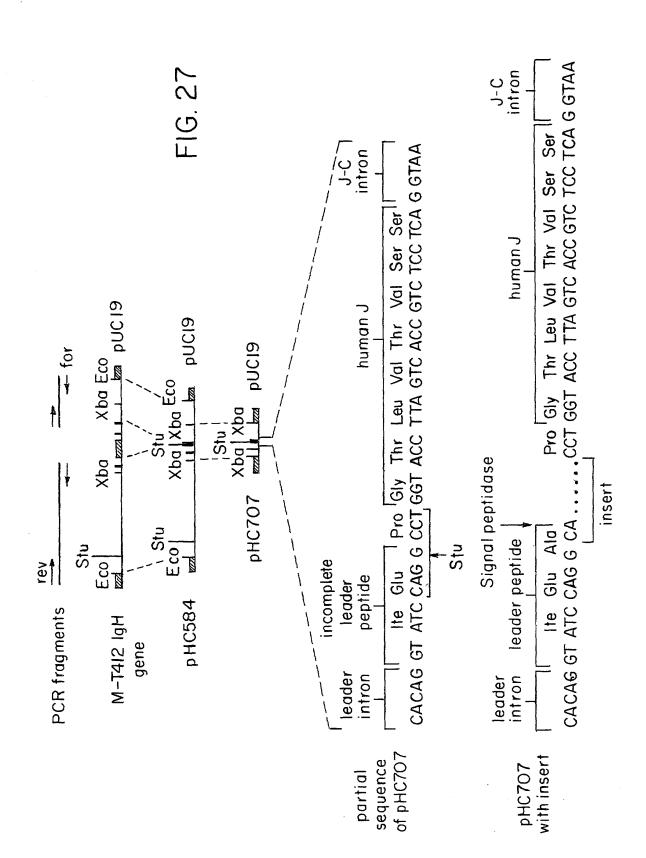




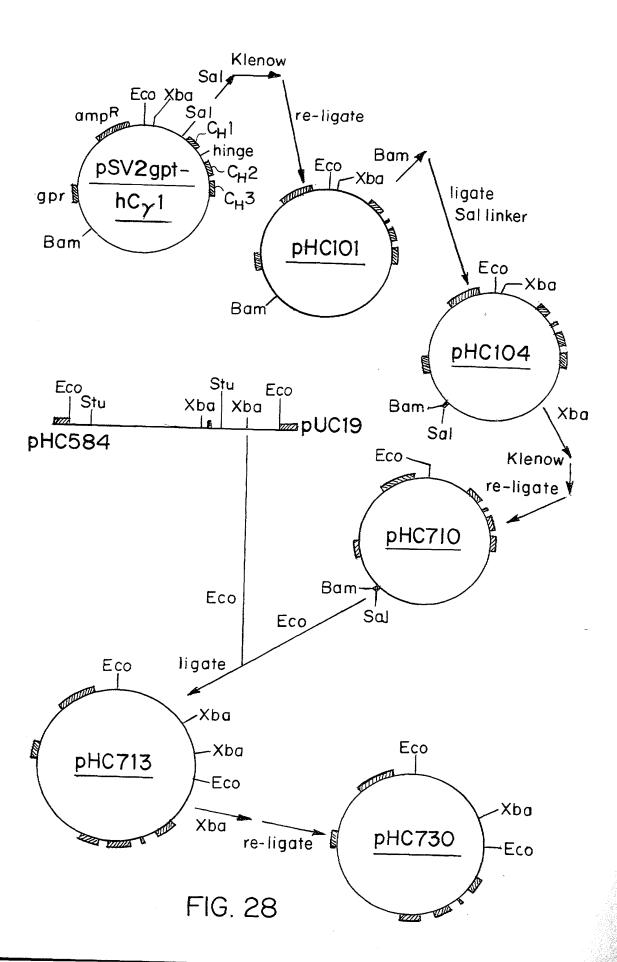
Docket No.: 0975.1005-016 Title: METHODS OF TREATING ANKYLOSIS....



Title: METHODS OF TREATING ANKYLOSIS....



Title: METHODS OF TREATING ANKYLOSIS....



Title: METHODS OF TREATING ANKYLOSIS....

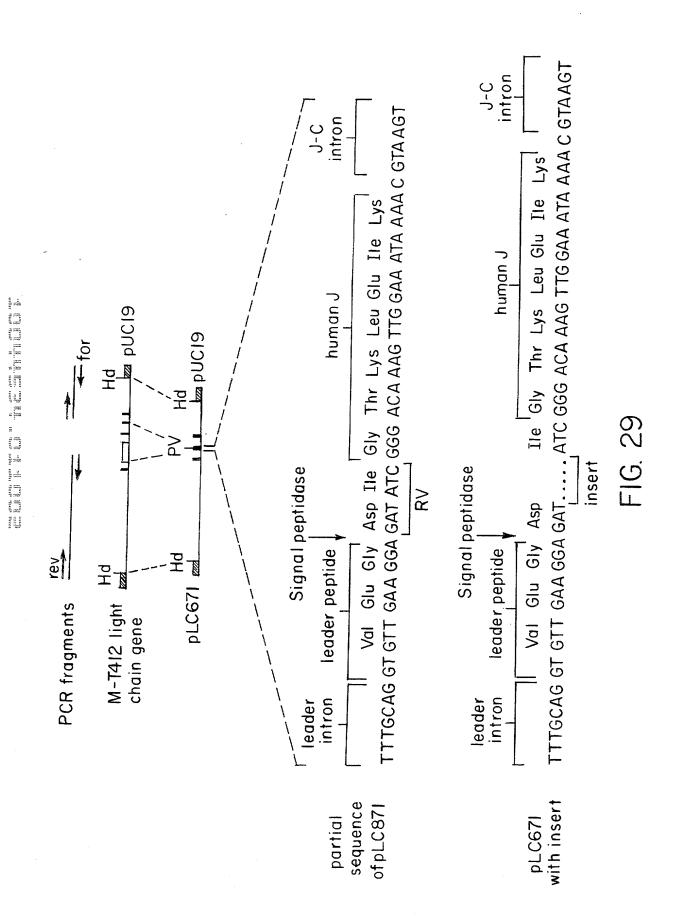


FIG. 30

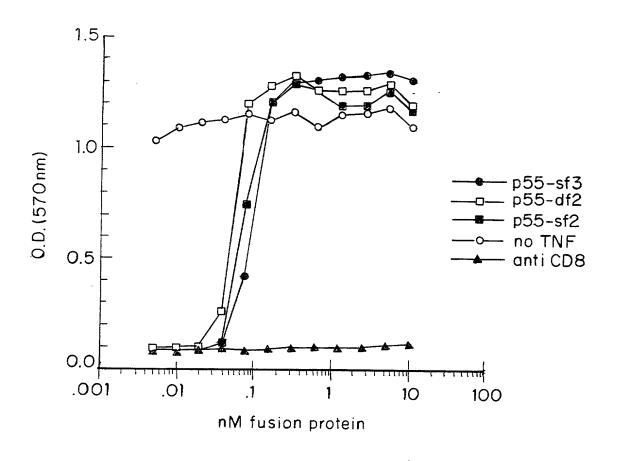


FIG. 31A

Title: METHODS OF TREATING ANKYLOSIS....

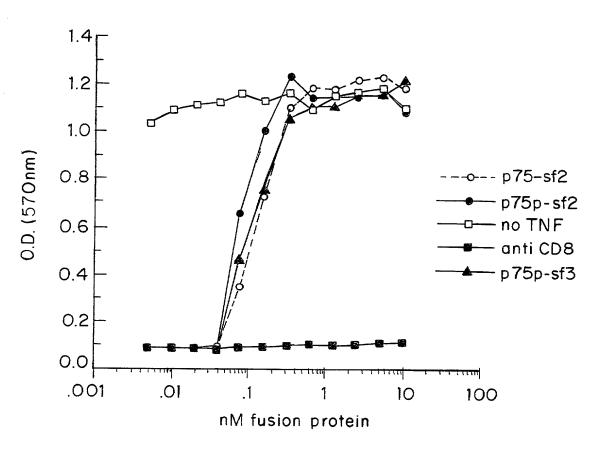


FIG. 31B

Title: METHODS OF TREATING ANKYLOSIS....

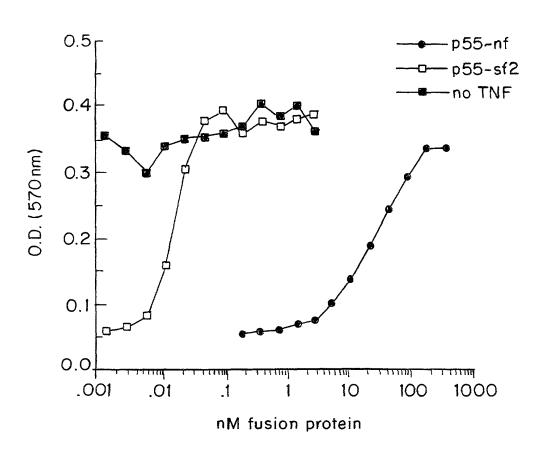


FIG. 31C

Title: METHODS OF TREATING ANKYLOSIS.... Inventors: Junming Le, *et al.* Docket No.: 0975.1005-

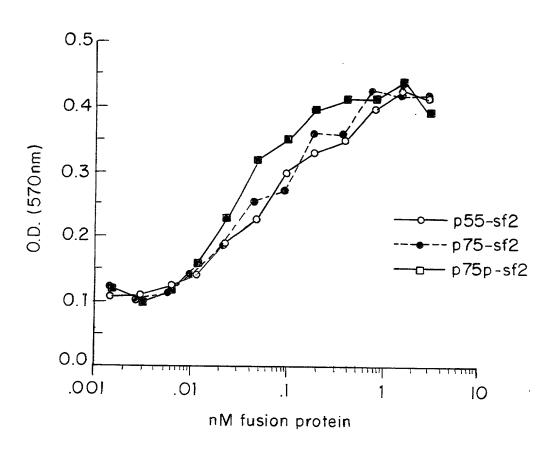


FIG. 32

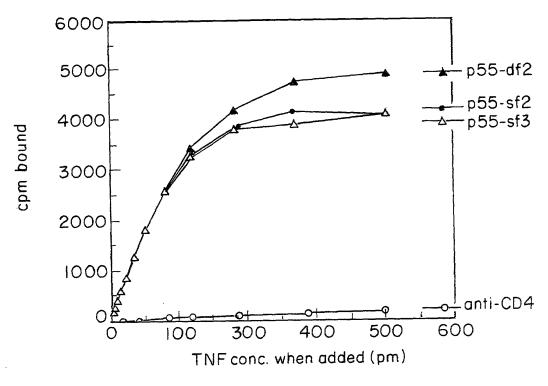


FIG. 33A

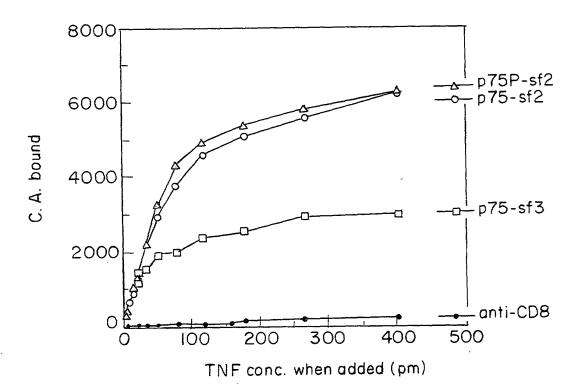
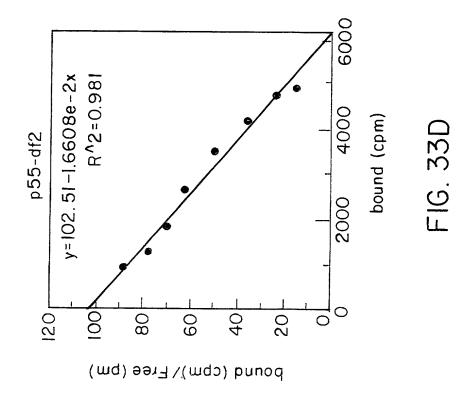
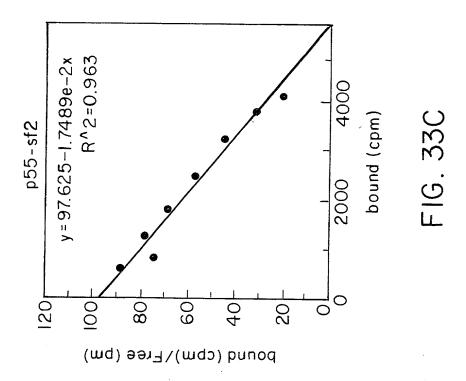


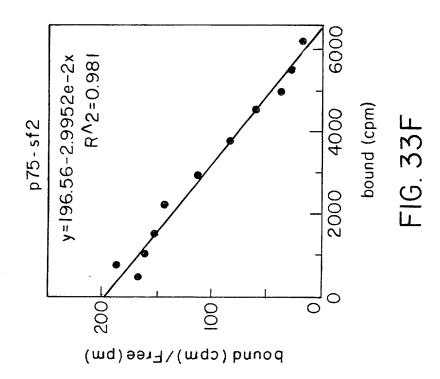
FIG. 33B

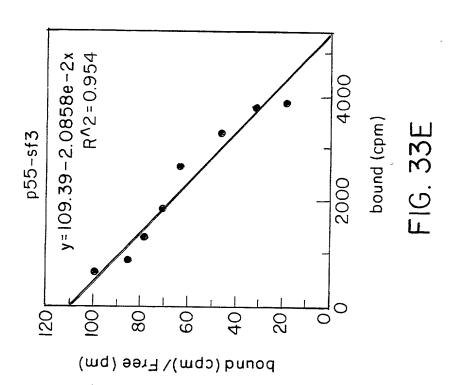
Title: METHODS OF TREATING ANKYLOSIS....



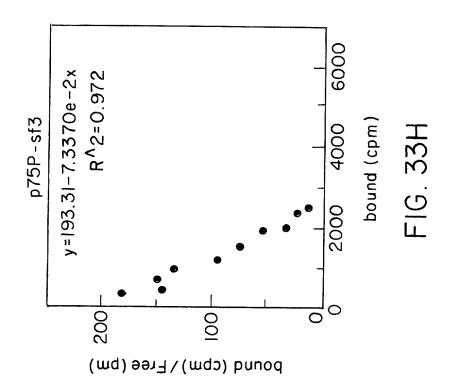


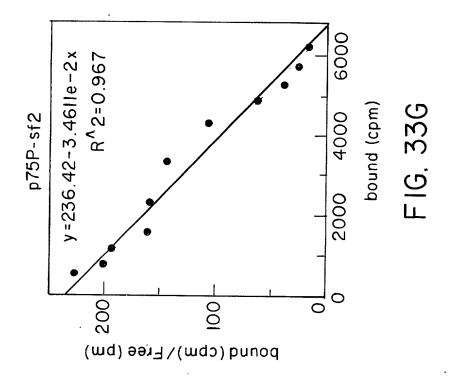
Title: METHODS OF TREATING ANKYLOSIS....



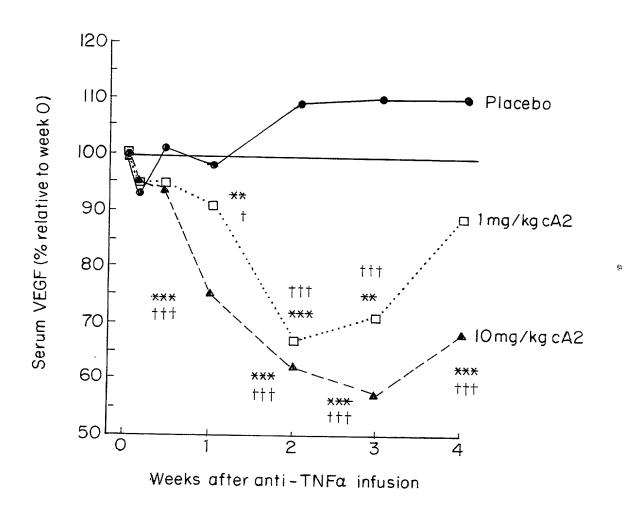


Title: METHODS OF TREATING ANKYLOSIS....





Title: METHODS OF TREATING ANKYLOSIS.... Inventors: Junming Le, et al. Docket No.: 0975.1005-



* p \leq 0.05, ** p \leq 0.01, *** p \leq 0.001 *versus* pre-infusion † p \leq 0.05, † † p \leq 0.01, † † † p \leq 0.001 *versus* change in placebo group

FIG. 34